



# NH Municipal Association Local Government Center, Concord, NH – Thursday, July 15<sup>th</sup> 8:30 am – 12:30 pm

## Where the Rubber Meets The Road Practical Answers to Using Alternative Materials in Transportation Applications

**Please register in  
advance. Contact  
information below.**

### North or South from I-93

Take exit 15E; travel approximately 3.5 miles to exit 3 (Route 106). Turn right (south) at the light at the end of the exit ramp and follow Route 106 through the next light. Continue approximately 1.5 miles, passing the Steeplegate Mall. Take a right onto D'Amante Drive and then a left onto Triangle Park Drive. The Local Government Center is located directly behind Home Depot and across the street from the Target department store.

**Overview:** A seminar for road agents and DPW personnel involved in local transportation projects. The purpose of this seminar is to share information about the potential to use waste derived glass, plastics, asphalt shingles, compost, and other waste derived materials in transportation applications. At least 30-40 communities in NH separate wastes and then contract with processors to produce road aggregates, patching or drainage materials. This can result in avoiding disposal costs and providing an inexpensive construction material.

**Who Should Attend?** Road Agents and other DPW staff involved in purchasing and using road construction materials for public works projects, materials processors and consultants.

Michael Sills, Assistant Director Waste Management Division, NH DES, will open the event with a summary of the agency's efforts to utilize reclaimed materials in major highway projects. Professor **Dana Humphrey**, University of Maine. Dr. Humphrey's research includes using **tire chips** as lightweight fill, retaining wall backfill, and thermal insulation has received national attention. Paul Routhier will provide an overview of the utilization of tire chips as road aggregate by Routhier Tire in Massachusetts will be part of his presentation. **Jeff Melton**, Outreach Coordinator, RMRC will cover the basics of the AAASHTO specification for glass use and other promising materials currently being researched at RMRC. **Richard E. Lee**, Road Agent in New London will review how and where the town has utilized recycled glass in road construction and acted as a regional depot collecting glass from other communities. **Thomas Kane**, of Commercial Paving & Recycling will talk about available products made from waste derived materials. His presentation will highlight the potential for economic savings in the applications that involve reclaimed materials. **Alan Rawson**, Research Civil Engineer with the NH DOT will review the state's experiences with using fly ash as a substitute for Portland cement, compost for erosion control, issues related to RAP (recycled asphalt pavement) and what's on the horizon for the DOT. **Pierce Rigrod**, NH DES will present a general summary of national statistics of using recycled materials and the economics of using waste derived products.

### Agenda

#### 8 :30 – 9 :00 Introduction NH DES (30 minutes)

- i. Overview – Environment & The Highway (**Michael Sills**, P.E., PhD, Assistant Dir., Waste Division, NH DES)
- ii. National Trends for Using Recycled Materials and Economics of Waste Derived Products; (**Pierce Rigrod**, NH DES)

#### 9:00 – 10:00 Waste Tires in Local Transportation Projects (1 hr.)

- iii. Current Applications and Research using Tire Chips as a lightweight fill material, **Dr. Dana Humphrey & Paul Routhier** (Routhier Tire)

### Break (15 minutes)

#### 10:15 – 11:15 Waste Glass in Local Transportation Projects (1 hour)

- iv. Basics of AASHTO M-381-01 (glass as an aggregate/soil amendment), **Jeff Melton**, PhD Outreach Coordinator, UNH RMRC

- v. Local experiences with waste glass aggregation and application in New London, **Richard Lee, Road Agent.**

**11:15 – 12:00 Processing Wastes into Materials for Local Transportation Projects (45 minutes)**

- vi. Local collection specifications and road products, CP, Inc. **Tom Kane**, CP, Inc
- vii. Applications : experiences and economics in Maine, NH, **Tom Kane**, CP, Inc.

**12 – 12: 30 NH DOT: Experiences with Alternative Materials in NH & VT**

- viii. Fly ash as a substitute for Portland Cement, **Alan Rawson, Materials Research Engineer, NH DOT**
- ix. RAP (recycled asphalt pavement), **Alan Rawson, Research Civil Engineer, NH DOT**
- x. Compost in soil erosion control, **Alan Rawson, Research Civil Engineer, NH DOT**
- xi. Alternative materials in flexible delineators and other road related products. **Alan Rawson, NH DOT**

**12: 30 pm Adjourn – Informal Discussion**

- xii. Looking forward at other materials and future; networking.

**To Register: Call 603-271-3713 or email [prigrod@des.state.nh.us](mailto:prigrod@des.state.nh.us)  
Seating is Limited**